



Dubai International Private School - BR.

DIPS, in partnership with parents and community, strives to ensure all students are digitally literate, lifelong learners, productive citizens and nurture their well-being in an inclusive learning environment.

"Empowering Minds, Inspiring Hearts, Shaping the Future"

"تمكين العقول، إلهام القلوب، تشكيل المستقبل"



Science Department

Semester: 1

2026-2027

Grade Level		3	Subject: Science	
Teacher(s) Name		Mrs. Angie/ Mrs. Amany/ Ms. Thana		
Textbook		HMH Science Dimensions		
Week #	Dates		Lesson Title / Pages	NGSS Standards
1	Aug 31	Sept 4	Orientation Week Science classroom routines and safety What is science? Observe, ask questions, and share ideas.	SEP: Asking Questions and Defining Problems
2	Sept 7	Sept 11	Unit 1: Engineering Processes Lesson 1: How Do We Define a Problem? Essential Question: How do engineers define a problem? Vocabulary: engineer, technology, problem, need, criteria, constraint, solution Hands-On Activity: What's in the Way? Observe a problem and describe what a successful solution needs to do. Assessment: Teacher observation + exit ticket	3-5-ETS1-1+ IXL Practice
3	Sept 14	Sept 18	Unit 1: Engineering Processes Lesson 2: How Can We Design a Solution? Essential Question: How can we design a solution to a problem? Vocabulary: engineer, technology, problem, need, criteria, constraint, solution Project: Modeling Irrigation. Plan and create a model irrigation solution. Assessment: Design plan/model + oral explanation	3-5-ETS1-2+ IXL Practice
4	Sept 21	Sept 25	Unit 2: Forces Lesson 1: What Are Forces? Essential Question: How do forces affect motion? Vocabulary: force, push, pull, motion, speed, direction	3-5-ETS1-3+ IXL Practice

			Project: Demonstrate how forces affect motion using pushes and pulls. Lesson 1 Investigation and Application - Forces and Motion Vocabulary: force, motion, speed, direction, evidence Hands-On Activity: Compare how different pushes and pulls change motion. Assessment: Investigation sheet + teacher observation	
5	Sept 28	Oct 2	Unit 2: Forces Lesson 2: What Are Some Types of Forces? Essential Question: What are some different types of forces? Vocabulary: force, push, pull, contact, friction, gravity Project: Exploring Forces. Observe and compare forces acting on objects. Assessment: Investigation chart + teacher questioning	3-5-ETS1-1; 3-5-ETS1-2; 3-5-ETS1-3+ IXL Practice
6	Oct 5	Oct 9	Unit 2: Forces Lesson 3: What Forces Act from a Distance? Essential Question: What forces can act without touching? Vocabulary: magnet, magnetic force, attract, repel, distance, electromagnet Project: Build an Electromagnet. Build and test a simple electromagnet. Assessment: Investigation sheet + teacher observation	3-PS2-1+ IXL Practice
	Oct 12	Oct 16		
7	Oct 19	Oct 23	Unit 2: Forces Lesson 3: What Forces Act from a Distance? Essential Question: What forces can act without touching? Vocabulary: magnet, magnetic force, attract, repel, distance, electromagnet Project: Build an Electromagnet. Build and test a simple electromagnet. Assessment: Investigation sheet + teacher observation	3-PS2-1+ IXL Practice
8	Oct 26	Oct 30	Unit 2 Review and Assessment Review: force, push, pull, motion, direction, magnetic force, attract, repel Project: Explain how forces change motion and how some forces act from a distance. Assessment: Unit 2 performance task + short assessment	3-PS2-1+ IXL Practice

9	Nov 2	Nov 6	Unit 2: Forces Lesson 2 Investigation and Application - Exploring Forces Hands-On Activity: Compare how different forces affect the motion of objects and use observations as evidence. Assessment: Science notebook + investigation task	3-PS2-1+ IXL Practice
10	Nov 9	Nov 13	Unit 2: Forces Lesson 3: What Forces Act from a Distance? Essential Question: What forces can act without touching? Vocabulary: magnet, magnetic force, attract, repel, distance, electromagnet Project: Build an Electromagnet. Build and test a simple electromagnet. Assessment: Investigation sheet + teacher observation	3-PS2-3; 3-PS2-4+ IXL Practice
11	Nov 16	Nov 20	Unit 2 Review and Assessment Review: force, push, pull, motion, direction, magnetic force, attract, repel Project: Explain how forces change motion and how some forces act from a distance. Assessment: Unit 2 performance task + short assessment	3-PS2-1; 3-PS2-3; 3-PS2-4
12	Nov 23	Nov 27	Unit 3: Motion Lesson 1: What Is Motion? Essential Question: How can we describe motion? Vocabulary: motion, position, distance, speed, direction, observe Project: Slow Walk, Fast Walk. Observe and compare slow and fast motion. Assessment: Observation chart + exit ticket	3-PS2-2+ IXL Practice
13	Nov 30	Dec 4 National Day	Unit 3: Motion Lesson 1 Investigation and Application - Slow Walk, Fast Walk Learning Focus: Use observations to describe and compare motion. Vocabulary: motion, speed, position, distance, pattern Hands-On Activity: Repeat movement observations and record patterns. Assessment: Science notebook + discussion	3-PS2-2+ IXL Practice
14	Dec 7	Dec 11	Unit 3: Motion Lesson 2: What Are Some Patterns in Motion? Essential Question: How can patterns help us predict motion? Vocabulary: pattern, motion, predict, repeat, swing, position Hands-On Activity: Tick Tock. Observe repeating back-and-forth motion and record the pattern. Assessment: Investigation table + teacher observation	3-PS2-2+ IXL Practice

	Dec 14	Jan 1		
15	Jan 4	Jan 8	Unit 3: Motion Lesson 2 Application - Tick Tock Vocabulary: pattern, motion, predict, evidence, repeat Project: Observe repeated motion, describe the pattern, and make a prediction. Assessment: Science notebook + exit ticket	3-PS2-2+ IXL Practice
16	Jan 11	Jan 15	Unit 3 Review and STEM Application STEM Task: Observe a motion pattern, make a prediction, and explain how a force can change motion. Assessment: Unit 3 performance task + review	3-PS2-1; 3-PS2-2+ IXL Practice
17	Jan 18	Jan 22	Semester 1 Science Review and Assessment Review Unit 1: Engineering Processes Review Unit 2: Forces Review Unit 3: Motion Assessment: Semester 1 review / practical stations	3-5-ETS1-1; 3-5-ETS1-2; 3-5-ETS1-3; 3-PS2-1; 3-PS2-2; 3-PS2-3; 3-PS2-4
18	Jan 25	Jan 29	Semester 1 Science Assessment and Reflection Students demonstrate understanding through questions, investigations, models, evidence, and explanations. Reflection: What did I learn as a scientist and engineer?	3-5-ETS1-1; 3-5-ETS1-2; 3-5-ETS1-3; 3-PS2-1; 3-PS2-2; 3-PS2-3; 3-PS2-4